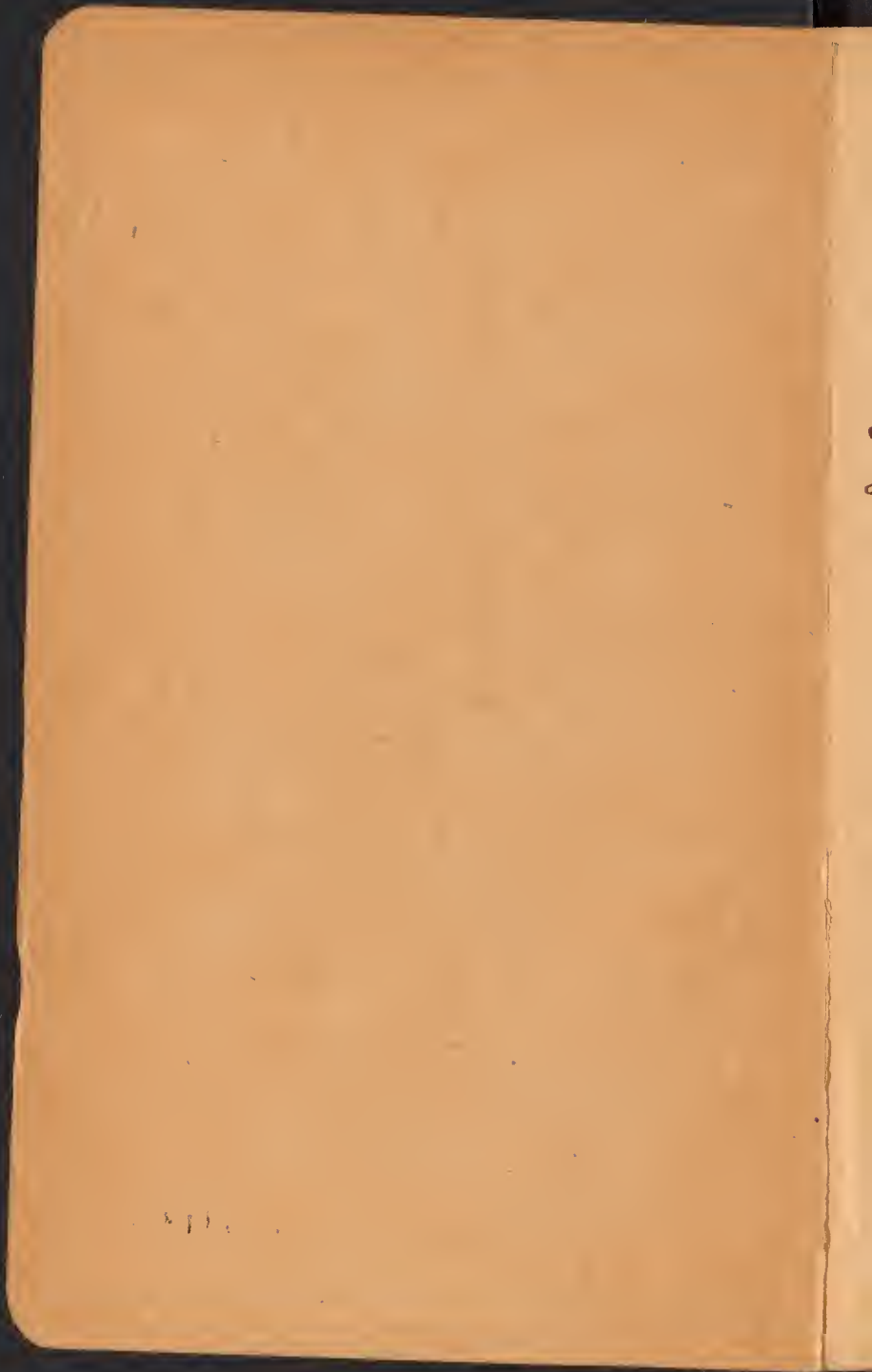


Record





Mycological Notebook

consisting of field notes, observations etc
discussions of literature of species collected,
as well as tables, keys, etc collected from sundry
sources

by

Carroll William Dodge A.M., Ph.D.

Volume Three

July 1, 1921 to Dec. 31, 1923

California trips.

June 24, 1921. Los Gatos to Aldercroft Creek.
Collected to right of railroad along the creek
returned via highway and railroad to Los
Gatos.

June 25, 1921. Saratoga, up John Brown
Trail nearly to Boys Outing Farm.

July 2, 1921. Over El Toro from Morgan Hill
down Paradise Valley along stream and
back to Morgan Hill.

July 4, 1921. Morgan Hill north east to
swimming hole, up past Twin Sakes
to head of Creek at foot of Hoover Valley.

July 10, 1921. Tennessee Cove from
Manzanita, thence over the hills toward
Mill Valley, then road down thru
Muir Woods, up railroad to bridge at
summit of divide down fire trail and
along Cascade Drive to Mill Valley

July 24, 1921. Park Boulevard to Redwood Peak
across hills to Shepherd Cañon, back to Park Boule
vard

Study at Dudley Herb. at Seland Stanford Jr Univ
July 29 - Aug 3, 1921.

Hysterangium cinereum Hk # 31

Shape depressed globose, size 1 X 2 cm now
color cinnamon to bistre in alcohol

fibrils scanty small concolorous base not prominent
columella large at base branching

peridium ^{simplex} 300 μ color dark brown, 4-5 μ

outer of thick walled ~~gelatinized~~ hyphae
inner of gelatinized hyphae compact
gleba ^{firm} color dark olive, ^{buff to citrine drab} cavities empty.

septa 80-90 μ , compact gelatinized hyphae

basidia cylindric 10-14 X 4-5 μ

sterigmata $\frac{3}{4}$ long as spores; spores color

greenish yellow ^{rhomboid ellipsoid}
~~rhomboid~~ shape to almost ~~all~~ allantoid


15-16 X 7-5.



Pretty close to *H. clathroides*.

single small specimen for type.

Hysterangium fuscum Hk. #177

shape globose size 1 cm
 color clove brown
 fibrils inconspicuous base attenuate 5 mm
 columella percurrent slender unbranched.
 peridium duplex 200 μ , color dark brown outer
 outer ⁷⁵ coarse thick walled closely interwoven
 hyaline inner hyphae, inner 125 μ loosely woven
 gelatinized hyphae as in septa
 gleba color olive brown cavities
 septa 160-200 μ thick of fine gelat. hyphae
 cystidia not seen
 basidia small gelatinized? not seen
 sterigmata spore color yellow
 brown shape 
 size 10-12 x 4-5



Hysterangium occidentale Hk # 242

Shape rotund flattened size $2 \times 4 \times 4$

color dirty white blackening in alcohol.

fibrils few, ^{concolorous} conspicuous free to adhere base not prominent

columella penetrating at least to middle branches
cavities radiating from it

peridium flaking off $350-375 \mu$ color dark brown

of brown hyphae 4μ lying in rhizomorph like strands
loosely interwoven. inside crack like gleba

gleba color ochraceous brown cavities empty radiating

septa 200μ of closely woven ^{suppl.} gelatinizing hyphae

cystidia not seen

basidia linear collapsing seeming thread like
^{4 spored}

sterigmata short spore color

yellowish brown in ⁴ shape usual *Hyst.* shape

size ¹² $16 \times 6-7$

!X!

Hysterangium Phillipsii Hk #234.

Shape

size

color Mars brown to Warm sepia

fibrils none, but with rhizoid base branching
slightly below

columnella as shown in figure

duplex outer 275 μ

peridium inner 400 μ color olivaceous brown
outer of thin walled empty hyphae or collapsed pseudopar

enchyma 3-4 μ inner gelatinized hyphae

gleba color hyaline cavities

septa 40+ μ between hymenium

cystidia not seen

basidia long slender cylindric 2-spored

sterigmata long as spores spore color

hyaline to olivaceous shape oblong 

size 3-4 \times 1.

Hydnangium aurantium (Hk) G + D Hk # 74

Hydnangium album Hk # 178

Fructification globose, brownish in alcohol
1 cm in diameter, fibrils base and columella
none; peridium simplex 400 μ thick
of hyaline slender closely woven branched
hyphae; gleba concolorous, cavities empty,
septa 75 μ same structure as peridium
paraphyses and basidia clavate 20 x 6.
sterigmata 6-7 μ long, spores densely
echinulate with short sharp spines
11-12 μ in diameter

In outer part of peridium are dark brown
bodies resembling latex organs, but perhaps
only soil particles, unable to decide from
preparations.

Hydnangium compactum Hk 191


Fructification depressed globose, 2 cm
 basal brown to tawny olive (now, 1921) fibrils
 base + columella none; peridium simplex
 120-130 μ thick of hyaline slender
 compactly woven gelatinizing hyphae
 gleba light ochraceous buff, cavities
 empty, septa 80 μ like peridium
 paraphyses + basidia oblong 20 \times 4-5
 sterigmata short, spores very
 sparsely echinulate with very tiny
 spines. 5-6 μ in diam.

Hydnangium luteolum Hk #100


Fructifications small, irregular, white
turning brown; base + columella none
peridium ~~200-300~~ (200-1300 μ thin
walled very small closely woven hyphae
homogeneous; gleba orange yellow; cavities
small empty; septa 35-40 μ of coarse
gelatinized hyphae; basidia pyriform
35-40 \times 8; sterigmata short spores honey
color ~~1/2~~ shortly echinate spines
very small not very close \angle . 12 μ .

Octaviania brunneolam Hk 82

Fructification small 1-2 cm peridium
nearly black now; (sliced) base or columella
not seen; peridium 500-550 μ thick lemon
yellow in section hyphae // interwoven
leaving large air spaces

thick walled gelatinized  slender
hyphae 2-3 μ uniform texture gleba
yellow brown cavities nearly filled.

septa 30-40 μ , same texture as peridium
without air spaces, more hyaline, cystidia
not seen basidia depressed globose 4 spored

 7x5; spores brownish yellow 7-8 μ
verrucose to bluntly echinate }





Compare *M. Eisenii*

Octaviania citrina Hk 157 also 155 & same

Fructification depressed globose to irregular
1.3 X 2.0 cm. dirt clings to peridium in spots
white becoming ochraceous tawny.

base and columella none, peridium
200 μ duplex(?) outer portion as in preceding
sending strands outward which entangle
dirt. ~~too~~ indefinite layer of large cells
almost pith like extending to gleba

gleba ochraceous tawny cavities empty
septa 70-80 μ of pseudoparenchyma
10-11 μ diam. cystidia ^{not septs} ~~shape~~

basidia clavate  4-8 spored
20 X 11 μ sterigmata  6-7 μ long
slightly swollen bases; spores
yellow brown   10-12 μ

few crystals in peridium

discolored
Harkness

Harkness 61 is similar but has a fibrous
peridium of slender gelatinized hyphae 160-180 μ
outer portion not much different from inner.

septa 30-40 μ

Octaviania monticola Hk 13

Fructification irregular, 2 X 3 X 3 cm.
 buff becoming Verona brown in alcohol.
 base prominent but no columella; peridium
 duplex 300 μ outer layer 100 of thin walled
 slender hyaline hyphae inner layer
 pseudoparenchymatous gleba a little lighter
 than peridium, cavities empty; septa hyaline
 80-120 μ wide rather indefinite structure
 resembling outer peridium with occasional
 suggestion of ~~Pseudoparenchyma~~; para-
 physes clavate, basidia clavate 35 X
 6-7 sterigmata short, spores 10-12 μ
 minutely verrucose

compare *O. pumila* Hk det. non p. 33

Octaviania occidentalis Hk 137 see p. 26

Octaviania socialis Hk 232

Fructification by the coalescing
of numerous small ones
whole $2 \times 2.5 \times 4$ cm.

base prominent



sort of pseudocolumella formed of
peridia of coalescing bodies

peridium brownish $250 - 280 \mu$ of parallel

thin walled septate hyphae almost
pseudoparenchymatous $4 - 5 \mu$ thick

gleba dark brown, cavities empty
septa 120 between hymenial layers


coarse celled pseudoparenchyma

$20 - 25 \mu$ thick; cystidia absent para

physes clavate to almost knobbed

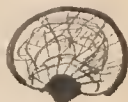
basidia broadly clavate $25 - 30 \times$

$7 - 8 \mu$ sterigmata $7 - 8 \mu$ long; spores

pale yellow,  echinulate. 12-14

Hymenogaster Behrii Hk 104 (2911)

Fructification 1-4 cm depressed globose, irregularly lobed, sterile base present; ^{cartilaginous} columella rudimentary or none; peridium covering upper half of fructification, as in diagram peridium very thin or else peeling badly in sectioning, yellowish somewhat gelatinized coarse, hyaline hyphae, same texture as septa but a little darker, gleba concolorous, cavities large, empty; septa 25-30 μ between hymenia, yellow to brown coarse gelatinized nearly // hyphae; paraphyses short cylindric basidia similar but projecting above the hymenium a short distance mostly 4 spored, sterigmata 5-6 μ , spores ellipsoidal 11-12 X 8-9 minutely verrucose



Dendrogaster
~~*Hymenogaster*~~ *candidus* (Hk 49) Z + D.

Fructification not over 2 cm white becoming ferrugineous in alcohol, sterile base prominent, columella very reduced; peridium



flaking off leaving only a few patches, portion left is pseudoparenchymatous thin (diagram greatly exaggerated); gleba ferrugineous, cavities comparatively large empty; septa 250-275 μ thick, of compactly interwoven, branched hyphae paraphyses clavate 25-30 \times 4-6 μ basidia clavate 45-60 μ \times 7-8 μ projecting beyond paraphyses; sterigmata 4-5 μ long; spores ellipsoidal to obovate ^{minutely} verrucose 5 \times 10 μ .

Gautieria caudata (Hk) (g + d).
~~*Hymenogaster caudatus*~~ Hk 246

Fruifications up to 5 cm; cordate
 much as in *G. plumbea*, base 2-3 mm
 1 mm thick, columella nearly percurrent not
 branched, peridium formed by gelatiniz-
 ation of what would otherwise be septa
 hymenial layer of septum, septa thick
 200 μ of gelatinizing hyphae rather
 indistinct basidia cylindric with
 sterigmata as long as spores;
 spores with 6-8 long striations slightly
 warty & somewhat spirally placed
 7-8 x 15-16 μ

~~Pendr~~
~~Hymenogaster~~ *globozus* Hk# 246

Fructification small globose 0.6-0.7 cm
 diam dirty white becoming brownish;
 sterile base none ① columella
 nearly percurrent zigzag, peridium
 variable 40-80 μ of coarse brown loosely
 tangled hyphae thick walled septate
 gleba fuscous to cinnamon, cavities
 filled with spores; septa of medium
 sized gelatinizing hyphae closely inter
 woven, 20-40 μ between hymenial layers
 so gelatinized that basidia not seen
 spores typically winged ② 4-6
 wings 6x12 μ .

In Harkness 245 outer half of peridium
 brown, inner half nearly hyaline
 basidia linear to narrowly clavate
 inconspicuous with large sterigmata.

8

Hymenogaster ruber Hk # 248

Fructifications 1 x 2 x 4 ^{dark} oblong, reddish
in alcohol; sterile base not evident, columella
none, peridium thick but varying greatly
in thickness 400+ of two layers
outer coarse stupose thickwalled
brown hyphae, inner portion of
thinwalled branching septate hyphae
approaching pseudoparenchyma
in places; gleba tawny cavities
small, filled with spores; septa of
slender much gelatinized hyphae,
50-60 between hymenia; basidia
truncate clavate 20 x 6-7 μ
sterigmata 10-12 μ long,
spores ellipsoidal to obovate
6 x 8 verrucose



Hymenogaster Setchellii Hk 165
Fructification

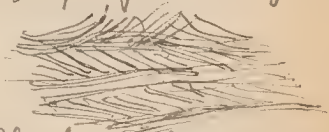
Dendrogaster
~~*Hymenogaster*~~ *utriculatus* Hk 244

Fructification large irregular
 chocolate brown; sterile base slight
 columella to middle of fructification
 dendroid; peridium 220-240

μ thick outer portion brown-



ish shading inward, of gelatinized
 hyaline // hyphae
 gleba chocolate.



cavities partially filled with spores
 radiating from columella, septa

70-80 between hymenial layers, of
 gelatinized hyphae, cystidia not
 seen; basidia ^{broadly} clavate



25-30

$\mu \times 7-8\mu$ several spored, sterigmata
 3μ spores elliptic lemon yellow
 enclosed in utricle (see Harkness
 drawing) which shrinks simulating
 spiny appearance but "spines" irregularly
 placed.

Hymenogaster versicolor Hk 174
(1X2X2)

Fructification up to 2 cm depressed
globose, reddish black in alcohol
sterile base or columella none; peridium
very variable in thickness, outer portion
coarse stupose enclosing dirt,
inner portion of finer gelatinizing
including crystalline matter
hyphae; gleba tawny cavities filled
with spores; septa 40-50 same
texture as inner peridium basidia
truncate clavate with long sterigmata
spores as in H. ruber,

*Hydnangium**Melanogaster Eisenii* HK 116.

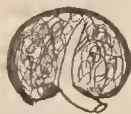
Fructification single 1.5 diam. sessile
 to clay color; fibrils concolorous innate no sterile
 base or columella; peridium thick 800 μ
 hyaline to lemon yellow, inner $\frac{1}{4}$ of small
 gelatinizing interwoven hyphae, outer layer
 of large thin walled loosely woven
 colored hyphae with prominent clamp
 connections, frequently ending
 with pyriform bodies; gleba dark
 brown to black densely crowded with
 spores; septa practically disappearing
 of same structure as ^{inner} peridium; cystidia
 none; basidia $25 \times 7 \mu$ hyaline
 inconspicuous / sterigmata long
 spores brown globose 6-8 μ
 slightly echinate

Macowanites

Octaviania occidentalis HX 137.

Fructification depressed globose

2-2.5 cm diam 1 cm high

ochraceous tawny to
blackthorn brown inalcohol (Aug 1921) stipe 0.4 cm long 0.3 cm
diameter, columella percurrent0.1-0.15 cm diameter, peridium not
enclosing base (see drawing) easily
separating from the gleba, 360 μ μ thick; loosely interwoven gelatinizing
slender hyphae gleba concolorouscavities empty large irregular, septa 120-
150 μ as peridium, latex very scant; cystidia

mucronate or flask shaped 36-40 x 8-10

paraphyses } septate; basidia 52 x

5-6 μ clavate; sterigmata short;

spores hyaline to slightly yellowish;

acicular spines 11-12 μ spines short
numerous.137.b peridium comes nearer stipe, spotted
as if changing to the touch, gleba warm
buff peridium pseudoparenchymatous

Hymenogaster Klotzschii

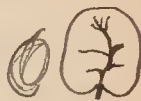
1807 // 28 // Herbarium G. Winter // *Hymenangium*
album Klotzsch = *Hymenogaster Klotzschii* Tul.
 Saxonia: in horto botanico Lipsiensi /
 April 1874 leg. G. Winter.

Fructification small, lawny or darker
 in alcohol, sterile base + columella none; peridium
 300-400 very loosely woven of thin walled
 branched hyphae 8-9 μ diam quickly collapsing,
 septa thin 20-25 μ thick of fine, gelatinized
 brown hyphae, too gelatinized to show
 basidia well; spores somewhat variable
 ellipsoid to slightly citriform, ^{yellowish} brown,
 14-15 X 8-9 μ slightly verrucose.



Strobilurus var *Harknessii*
Hysterangium australe Speg.

Harkness #84. (Jamalpais?)

Fructification 1X1X1.5 clay




color to tawny, sterile base not greatly developed
 columella zig zag branched cavities radiating
 peridium thin 110-130 somewhat duplex

outer portion of hyphae  outer
 nearly + to exterior thick  inner
 walled 3-4 μ diam inner more nearly

parallel to surface similar but more
 slender hyphae; gleba dark green yellow
 cavities, nearly filled; septa 280-300

between hymenia of large thin-walled
 loosely interwoven gelatinizing hyphae
 basidia not seen; spores 14-16 X 4-6 μ .

 smooth slightly yellowish.
 (Mill Valley?)

In Harkness 119 peridium 300-400 μ thick
 brown pseudoparenchymatous cells
 angular 6-7 μ diam, brownish yellow;
 basidia several spored, clavate



spores 15-16 X 3-4.



slightly brownish. Harkness 140
 similar to 119 but more gelatinized

H. *Strobilurus*
 H. *Strobilurus*
 H. *Strobilurus*

(anbum)

Hymenogaster luteus Vitt. = *H. albellus* M + R.

Harkness No 12 also named *Rhyzopogon luteolus* which it is not [seems nearer *H. niveus*]

Fructifications depressed globose, gregarious, 1X3X3 cm sterile base, columella & fibrils none, white stained with brownish where bruised, peridium 300 μ of large gelatinized hyphae yellowish in section closely tangled, gleba slightly pinkish, cavities empty, septa 70-80 μ of compactly interwoven slender hyaline hyphae, basidia broadly clavate 20-25X6-7 μ sterigmata 3-4 long spores obovate, citriform verrucose 12-15X8-9.

Hyst. australe (contin). Harkness 155 has


(*Calistoga*.)

peridium 300 μ brown closely woven slender gelatinizing hyphae septa 160 μ very much gelatinizing almost structureless, basidia & spores similar.

Gautieria monticola

Hymenogaster - Castle Crag, July 1899. not
identified Harkness —

1x2x2

Fructification formed by coalescence
of several fructifications; ochraceous buff
to warm buff; sterile base briefly stipitate
columella dividing near base 
much branched; peridium thin

30-40 μ stipe of thickwalled slender
|| hyphae rupturing frequently where
covering cavities; gleba buckthorn
brown, cavities small; septa 240 μ
of three layers inner of || hyphae slender,
gelatinized, outer \perp to inner, septate almost
pseudoparenchymatous; basidia narrowly
clavate two spored

sterigmata long, spores longitudinally
striate with 10 low spiral striations
brown, 11-12 x 6-7 μ striations smooth.

Gautieria monticola HK 113 large pored forms.

Fructifications globose to irregular
2 cm in diam; sterile base stipe like 1 mm
in diam, ^{peridium evanescent} no columella; no fibrils gleba
brown, cavities large empty, septa 200 μ
thick of slender thinwalled gelatinizing //
hyphae, basidia collapsing clavate
40 X 12 with long 16 μ sterigmata,
spores long striate ellipsoidal
or citriform with about 10 striations
straight and smooth, 17-20 X 8-12 μ



The above appears to be *G.*
morchelliformis.

Gautieria monticola HX 113 small pored form

Fructification flattened, irregular much lighter colored, very slender branching columella, sterile base not prominent, peridium or rather outer portion of gleba 140-16 μ thick of heavily gelatinized walled hyphae enclosing dirt in outer portion gleba grayish brown, cavity small empty, septa thick 120-140 μ thick same texture as peridium, basidia not seen spores 9-12 x 6-7 with \pm 8 spiral striations, striations sometimes rough.

The above taken as type of *G. monticola*.

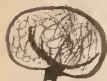
Octaviania pusilla herb nom? Harkness 282.

Fructification 1 cm diam
cinnamon brown, sterile base 
prominent ending in hemispherical bud at
base of columella, fructification, otherwise
columella absent; peridium about 200 μ
thick, thinwalled hyaline // hyphae,
gleba buckthorn brown, cavities large
irregular empty, septa 100 μ thick
of thinwalled slender hyaline hyphae
beginning to gelat. basidia \perp to septal
hyphae; basidia ^{broadly} clavate, two
sterigmata 3-4 μ ; spores 15 μ 
spines. $\frac{1}{4}$ prominent

compare *H. levis*

*arcangeliiella**Octaviania rosea* Hk 7.

Columella branching near the base



septa of septate thin walled

loosely interwoven hyphae

often reaching 9-10 μ diam latex

vessels present, basidia filamentous

sterigmata as long as spores, spores

echinulate

variable in size


~~10-11 μ~~ up to 17 μ diam

O. Octaviania carotaeicolor

2 Herbarium of Winter Ex 1809


Octaviania carotaeicolor (Berk) // ~~fide~~ 21e
teste Broome! Helvetia prope Zurich
silvula faginea autumnus 1882. by J. Winter.

Fructification about 1 cm irregular;
discolored dark in alcohol; sterile base &
columella none; peridium badly cracked
off, not seen, gleba concolorous, cavities
empty, septa thin 35-40 μ of much gelatinized
slender hyaline hyphae, staining deeply; basidia

 15-17 x 4-5 μ granular(?) sterigmata
short, spores almost sessile.

collar mentioned by p at showing
on many but not all spores. 8 μ in long diam
ellipsoidal.

Hymenogaster luteus leg Plowright 492. 17c

Fructification small up to 0.7 cm sliced dark brown to almost black; sterile base, columella or fibrils not seen; peridium 450-500 μ thick simplex of slender gelatinized, closely interwoven reddish brown hyphae; gleba a little lighter cavities small filled, septa 20-25 μ thick between hymenia of coarse gelatinized closely interwoven hyphae; cystidia not seen, basidia not seen, apparently not in definite layer but lying // to aseptate hyphae & sending spores into cavity; too gelatinized to be made out distinctly, sterigmata thick spores irregularly collapsed mostly  not roughened when not collapsed 15-16 X 7-8 μ .

Gautieria Harknessii Z + D.

Hymenogaster Bulliardii Vitt. 233

[Mt. Tamalpais, Marin Co, Cal. January.]

Fructification 2.5 cm X 2 X 2 cm ^{Prongs brown to mummy brown} pear shaped
+ fibrils
stipe not seen. columella branching 1 mm



thick; peridium 600 of very
loosely woven branched
brown 3-4 μ thin walled

hyphae occasionally encrusted with
yellowish crystals; below the peridium usually
a layer of gleba 200 μ of very slender hyaline
compactly woven hyphae, gleba, olivaceous
black (!) cavities empty small, septa
200-300 μ of slender hyaline gelatinized
hyphae closely woven; basidia not seen
distinctly enough, sterigmata short,
spores 12-20 X 7-8 μ longitudinally
striate with 8-10 striations.


Melanogaster ambiguus Berk

leg Plowright 503 26 b.

Fructification sliced $1 \times 1.5 \mu$
 staining alcohol yellow, black or nearly so
 without and within, base, columella and
 fibrils not seen, peridium red brown
 separating $275-300 \mu$ of very slender
 gelatinized ^{brownish} ~~hyaline~~ hyphae compactly
 woven, gleba black, cavities large, filled,
 septa 100μ approximately same texture
 as peridium inner portion brown
 tinted outer hyaline more gelatinized
 Basidia subglobose 16×8 with
 very thick sterigmata thin walled.
 Spores pyriform to obovate brown
 thickwalled, smooth $16-20 \times 10-11 \mu$

Hymenogaster rufus Vitt. Harkness 163.

[under shrubby oaks, Mill Valley, Marin Co. April]


Fructification oblong  1 x 0.7 x 0.1 cm
 color baccardo's under cracking in places.
 sterile base & columella none, peridium
 250-300 μ thick of coarse thinwalled
 branched hyaline hyphae, some \perp some
 \parallel to outer surface 4-6 μ diam at times
 a strand almost simulating pseudoparen-
 chymatous tissue; gleba cinnamon or darker
 cavities small empty, septa 100-120 μ thick
 of slender hyphae but same general texture as
 peridium; cystidia not seen, basidia pyriform
 to nearly cylindric 16 x 8 four spored, sterig-
 mata short and stout; spores citriform
 verrucose 12-16 x 7-9 μ .

*Gautieria pallida**Hymenogaster pallidus* Berk and B. Harkness 81

[under oaks, Camp Taylor, Marin Co., Calif. March]

Single fructification 0.8 cm diam irregularly globose, ^{very dark brown} sterile base but no columella visible. peridium duplex outer 160 inner 40 μ outer of loosely woven strands of medium, thin walled hyphae with large air spaces inner very dense # strand of thick walled // brown hyphae septate, gleba very dark brown cavities small sinuous, empty; septa 140 μ of three layers inner darker brown hyphae outer nearly hyaline of fine compactly woven much gelatinized hyphae; ~~cystidia not abundant nor~~ prominent cystidia not seen, basidia clavate 12-16 x 6-7 μ , granulate, spores long. striate 10-12 nearly smooth striations, 12-14 x 7-8 μ .

Hymenogaster lycoperdineus Vitt. Harkness 72
 [under oaks, Camp Taylor, Marin Co, Calif July]

single sliced fructification 1.5 X 1 X 1 cm
 no trace of fibrils sterile base or columella, ^{brownish black} peridium
 peridium thick, 800-1000 variable of very
 compactly woven slender hyaline gelatinizing
 hyphae, gleba concolorous, cavities very minute
 somewhat empty, septa 40-50 between hymenial
 layers, of very compactly woven gelatinizing
 hyphae, basidia marking acute \angle with
 septum, but too gelatinized to see structure
 spores elliptical to citriform, brown,
 rather thick walled granular  but not
 rough 15-16 X 7-8 sometimes appearing
 two celled from position of nucleus


Melanogaster tubiformis, corda Harkness 5.

[under small oaks, Mill Valley, Marin Co. Cal. April]

Fructification ~~single~~ globose 1 cm diam
Dresden brown, no trace of columella
fibrils or sterile base; peridium simplex
225-250 μ of slightly brownish to hyaline
thinwalled hyphae. 3-4 μ diam very
compactly interwoven, gleba nearly
black, septa similar to peridium
variable thickness, cavities filled
with loosely tangled, slender thin
walled fertile hyphae bearing truncate
basidia with several spores, basid
too gelatinized for measurement, spores
sessile 8-12 X 5-6 μ , thick walled
ellipsoidal to obovate smooth.

Rhizopogon roseolus (Corda) 34D
Hymenogaster calosporus Harkness 48
 [In the forest, Towle, Placer Co. Calif. May]

Melanogaster Broomeianus Berk Ex 851.
 near Milan, Italy among ~~low~~ bushes
 in level (campagne) ground. (or perhaps
 ex herb & winter Broome?
 not certain of handwriting). 26.

Fructification sliced. black, discolor-
 ing alcohol dark reddish brown; peridium
 duplex 275-300 outer layer a loose tangle
 of much branched brown hyphae 4-5 μ
 diam septate collapsing, inner compactly
 woven of slenderer gelat hyphae almost
 pseudoparenchymatous; gleba black, cavity
 filled; septa as inner peridium but much
 more gelatinized basidia seemingly forming
 hymenium & shooting spores into cavity but
 too gelatinized to be sure; spores oblong
 ellipsoidal, brownish black 7x4 

Hymenogaster arenarius Tul. Harkness 79

[in forest, Mt Tamalpais, Marin Co., Calif. March]

Fructifications less than 1 cm in diam
 irregular, base fibrils + columella not
 seen; peridium thin yellow 40 μ of slender
 || gelatinous hyphae, septa 40 μ of very
 slender gelatinized interwoven hyphae
 basidia too gelatinized to see distinctly
 spores citriform rough

16-18 X 9-10 μ



Melanogaster Broomeianus

26c Herbarium G. Winter. ex 1808.


Melanogaster Broomeianus. ^{Bark} Helvetia
prope gent in ~~forest~~ fruticetis. Sag. Dr.
J. Müller.

Fructification sliced 1 x 2 cm depressed
globose, base fibrils + columella not seen
peridium duplex variable thickness outer
layer of large thin walled branched
loosely tangled hyphae, deep brown,
badly collapsed, 120-160 μ inner of
slender gelatinized compactly woven
hyphae. gleba black cavities filled.

septa of same texture as inner peridium
middle layer brown; basidia not seen
because of gelatinization; spores oblong
ellipsoidal, black brown 8x4.

Hymenogaster tener Berk. Harkness 11.

[under oaks Oakland, Alameda Co., Calif.]

Fructifications small up to 0.6 cm diam almost black in alcohol; base fibrils or columella not seen; peridium of coarse branched hyphae almost completely gelatinized averaging about 200 μ thick; gleba concolorous, ^{septa} 80 μ thick too completely gelatinized to show structure spores citriform  with long apiculus 12-14 X 9-10 μ

Trip in British Columbia Aug 15, 1921 -

Aug 16, camped beside cemetery near Revelstoke. Aug 17, rainy collected on bank of Big Eddy of Columbia River at Revelstoke near camp on point. so-called camp #1.

Aug 18, followed Jordan trail, rainy to old mill site rainy

Aug 19 continued along trail to Canon Creek rainy some

Aug 20 moved camp to bank of Canon Creek just above the Jordan trail and a short distance above mouth of Canon Creek

Aug 21 followed right bank of Canon Creek upward from camp

Aug 22 forenoon on rocks at mouth of Canon Creek, and hillside between it and camp, afternoon up Jordan Creek nearly to mouth of Halfway Creek.
J. Eagle pass mts.

Aug 23 Started climb up mt between Canon & Halfway creeks climbed about 1100 ft camped on first extensive flat

Aug 24. Climbed to about 5000 ft camped
in little valley, before last steep climb to
parkland Camp 4.

Aug 25. Climbed to parkland ^{see p. 50 for} Pan. data

Aug 26 Climbed to top about 7100 ft.

Aug 27 Climbed down to Jordan above
rangers cabin, stopped there, and
returned to Camp 4 at the Big Eddy

Aug 28 Camp at Big Eddy.

Aug 29 ^{Pan. from Register} Camp at Glacier ^{see p. 51}

Went out of the CPR a short distance
above the Glacier Hotel between two
snow sheds. Camp 5

Aug 30. To top of ^{Big Glacier and} ~~pan.~~ camp by
following Cascade Road to end then
up Panorama

pan. Register	212.5°	19° down
Glacier Hotel	178.1°	24.5°
camp	225.5°	30°
Peak	206.5°	—
cabin	352.5°	16° up

Aug 31 R. J. H. H. H.

Sept 1. Osoakan Valley in morning Camped
at mouth of Quartz Creek + Columbia on
old mill site at Beaver mouth. Camp 6

Sept 2 Camped at first cabin up Quartz
Creek trail just above where first large
stream joins Quartz. Camp 7.

Sept 3. Packed food in morning
collected and dried fungi in afternoon

Sept 4. Collected from 4m to 10m in
in afternoon

Sept 5. Moved to Porcupine Cabin on
Porcupine creek above junction with
Quartz Creek. Camp 8

Sept. 6. Up thru Pass to Fish Lake Camp 9

Sept 7. Down to lower end of Fish
Lake thru spruces on west side
back over rock table to camp, then
back thru Pass to Camp 8.

Sept 8. Rainy

Sept 9. Whitelaced porcupine collected in
black bog into nothing up the end of
Quartz Creek trail (beginning of pass
land) for lunch collected hypoglycote?

Parkland.

1+2. R.R. bridge at Revelstoke

168.5° 8.5 below

Wagon Bridge at Revelstoke looking up
Eagle Pass Mts.

Mt. — 271.5° 10.0° up

Mt. Copeland 284° 7.5° up

Map. Lootenay, Osoyoos & Siml
Kamien. 1215. 1-10-1000

Map of Sands, British Columbia
Lancaster B.C.

Quartz Creek horiz Panorama ^{at cairn}

Donald 175 5 up

Macdonald 220 3 up

Stony Creek 235 9 down

camp 85 30 down

Quartz Cr. vertical Panorama

Donald 175 5 up

Macdonald 200 3 up

cairn 320 6.5 up

Peak to quarry 123 1 down

camp 10 50 18

Stone 155 125

Sept 9 (continued) then up Quarry Creek to camp 10. collected *Secotium* under beeches.

Sept 10 AM back to lunch stop of Sept 9 collected large coll of *Secotium* then up trail along left fork to cabin, mine up right trail to lakes back to camp.

PM stayed at home, others went to pass Iowa. Gully Creek Snowed hard.

Sept 11. up ridge between Quarry & Beaver river valleys, above head of Quarry 2 panoramas, one partial one complete. Stayed about camp in afternoon

Sept 12. Cleland took some pictures of ~~some~~ ^{some} other ~~photos~~ ^{photos} mts above Gully-Quarry Pass. Back to Porcupine Camp 8.

Sept 13. Down to Beaver mouth. One ~~stopover~~ ^{stopover} at camp 7. Stopover at folder.

Sept 14. Lake Louise, saw some ~~1st~~ ^{1st} ~~colls~~ ^{colls} but no collect.

Sept 15 - A Enroute for home.

Octaviania luteo carnea Bresadola

Subglobosa vel obovata 7-10 mm diam
 peridio in secco tessellato, glabro, luteo-
 carneo, fugcente tenui $\frac{1}{2}$ mm crasso;
 gleba cellulosa concolore, dissepimentis
 albis polygonalibus basi sterili conica
 circiter 3 mm alta, 2 mm ad peridium
 crassa; sporis stramineis globosis
 laxe tuberculatis echinulatis, apicu-
 latis 6-7 $\frac{1}{2}$ μ diam. vel 7x6 μ , apiculo
 2-3 μ basidiis clavatis 22-24 x 6-7 μ
 cystidia non vesa; hyphis dissepiment-
 orum tenuibus 3-4 $\frac{1}{2}$ μ crassis.

Hab. ad ligna. S. Leopoldo Brasiliae
 Rick no. 80.

Obs. Ab *Octaviania* mihi notis habita-
 tione in ligno, statura et sporis minoribus
 bene distincta habitu et coloribus vero
Hydnangio carneo Wallr. similis a quo
 basi sterile sporis duplo minoribus
 laxe et breviter echinulatis certe diversa

Hypogaei in Boston Mus. Nat Hist.
 Sprague Herb given to Fensholt Herb.

Hysterangium

Splanchnomyces roseolus Corda
 underground CC [Post] Brattleboro]

71. Fung Car. Exsicc. Rav.

Hydnangium Stephensii Berk. var β Ravenelii
 Berk and Curt! ad terram in campestris
 arenosis.

Melanogaster

Octaviania variegata ^{Vitt.} ex sps auctore!

DMuf.

Melanogaster variegatus Vitt. ex herb Berk
 misit Curtis Anglia

787 Melanogaster rubescens Tul. On the earth
 in a damp wood Mass. Sept 1856
 C f Sprague.

Gautieria graveolens Vitt ex epso auctore!
herb DNTif

Rhizopogon ^{*rubescens* Tul.} *luteolum* Fr. Desmaz. pl. crypt.
de Fr. 1913. Bors de sapins. rare

Rhizopogon *rubescens* Tulane
luteolus Vitt
albus. Schwein.

Fungi Car. Exsicc. Rav.

Westendorp & Wallays Coll. #39.

Rhizopogon luteolus Tul in penetis Italiae
Lupicani DNTif

Hymenogaster luteus Ex herb berk misit Curtis
Anglia

Secotium transversarium BC

Cauloglossum do Vitt in uliginosis
misit Curtis S Car.

Corynetes Curtisii B. coll Wright Conn.
misit Curtis

Phallus duplicatus - Mass. Sept. 1856 C J Sprague
" " (young) D Murray

Phallus impudicus Sum sp. - Desmaz pl crypt de
fr. 2029. sur la terre dans les bois très rare

Mong. et Nestl Coll.

Fries ~~misit~~ Curtis

misit Bloxam

Fendler Venezuela

De Notaris - Vitt. Cesati et al.

R H Howes Sitchens.

Cauloglossum transversarium Fr
New Jersey 1858 Bishop. 260.

Hysteromyces vulgaris Vitt. ex ipso auct!
herb D Ntij

Genea verrucosa ^{Vitt ipso} ex auctore! herb D Ntij

Balsamia vulgaris Vitt a monte lenato Piedemont
D Ntij

Stephensia bombycina Tul ex herb Berk musc
Curtis - Anglia

Chocromyces meandruformis ^{Vitt} ex ipso Vittadini!
herb Dntij

Tuber magnatum Vitt ex agris attensis Busco
aut 1856 Dntij

Tuber excavatum Vitt ex ipso auct! herb Dntij

Tuber maculatum Vitt ex Corda Tom VI in apenino
Siquistia hyeme Dntij

Tuber macrosporum Vitt e Montepenato Pedemont
Dntij

Tuber aestivum Vittad. Jenare in Horto Zerbino
sept 1856 Dntij

Tuber aestivum ex herb Berk musc Curtis Anglia

Tuber macrosporum Vitt ex herb Berk musc Curtis Anglia

Tuber scleroneuron B & Br ex herb Berk misit
Curtis Anglia.

Tuber melanosporum Vitt Erb critt ital n° 45
Oroier + Petti in Seq. amid ex Foffali Dntz

Tuber puberulum Berk ^{ex herb Berk misit} ~~ex herb~~ Curtis Anglia

Tuber rufum " " " " "

Elaphomyces decipiens Vitt ad ex ipsi auctores! herb Dntz

" *pyriformis* " " " " "

" *aculeatus* Vitt Non Taberna " " " "

" *anthracinus* Vitt " " " " "

" ^{*muricatus*}
variegatus Mass 1856 D Murray

" *granulatus* Albt. Schweinitz

282 *Scleroderma cervinum* Perso Syn Fung
p. 156. *Lycoperdon cervinum* Senn. Fungus
subterraneus frequens in sylvis abietinis
see Cooke's Brit Fungi II p. 750. Mong et North
Coll

Hymenogaster

Aug 9 1921 Path orchard B "Cornfield" Cutts I. Kittery Pt

Me. [R Thaxter Herb.]

Fructification irregularly reniform, $1 \times 1 \times 0.6$ cm
also much smaller white globose fr. in same coll.
peridium drying white (dirty brown in alcohol).

sterile base present not prominent, gleba
brown; cavities empty; septa.

Summer 1922.

June From saphouse thru sugar woods to Towne lot to R. Lane's line thence to white birches and down.

Ju Pine grove near Tadmer swamp thence up ravine north of Tadmer hill proper to top of Tadmer hill proper north east down to flat then south east along edge of woods.

July 4. Ruth accompanying. Pines by swamp following edge of swamp around to Blakeley's line then up that hill (Tadmer hill 2) swinging around h.e. along ridge to Blakeley-Brown line down into that pasture to level as in ju trip and back along edge of woods.

July 12. Pine grove by Tadmer swamp thence up wood road along edge of swamp to ravine north of Tadmer hill proper thence down to level in June trip but turned north keeping slightly uphill. When clearing nearly opposite Stewart's reached turned n. west, coming into Skop's meadow

about 5 rods from Wescott farm line. Back
thru pastures to open woodlands to Harwoods
sugar woods, down to road and home.
last rain July 8. Previous trips made
during a spell while it rained nearly
every ~~other~~ day.

Summer 1923.

Song Trail - Best botanizing vicinity of Goshen Lodge south to a little beyond Bloodroot Gap. south of **Carmel** at North Pond **!!** and Noyes Pond. also up trail from Pico Lodge.

Gaspé

July 3 to Montreal

July 4 to Matane collected up river on side of river terrace, mostly spruce. some stumps at top of terrace.

July 5. to Port du Cap Chat. Punctures at Gros Roche with short stop & few lichens on conglomerate boulders. *Senecio* *saepiaria* on timbers of wharf.

July 6. to clearing M. Hemon's clearing about 7 miles along river. Steep slopes, Fernald's auto went over bank due to faulty clutch, ^{no one hurt} rescued by manpower backed into oat piece rail fence taken down and rebuilt. After dinner at Hemon's we walked up wood road to locked camp over wet roads. Walked in rain collected lichens mostly

Sticta pulmonaria? in fruit, also *Sticta amplissima*, very striking lichens and very abundant on rocks. Slept in upper berth at locked camp. Camp 1.

July 7. Left locked camp about noon ferried across on raft without accident and pitched on Quillet(?) brook below cascade + spruce fir knob at foot of Cirque leading to Fernald Pass. Tented with Collins + Smith in Collins tent with my lining Camp 2

July 8. From camp 2 ascended north of knob at foot of cirque then up the valley along brook to beautiful birch grove

From here to top of Fernald Pass was a very difficult struggle with scrub birch alder and above, stunted firs which make climbing very tedious. Lunched at Fernald Pass then over parklands, southwest over ^{north side of} summit 3450 ft (uncorrected aneroid) avoiding scrub fir ^{on} summit itself then down into saddle up east side western peak and thence straight down shoulder to spruce knob, upper part steep thru fern glades easy, latter part down

cliffs. From swamp at head of brook forming south branch of Ouellet brook at Nettle gully. followed head of brook down to camp 2. Bank of snow still in bottom of gully added to difficulties of descent. Arrived about 7³⁰ at camp 2.

July 9. Rested, took care of specimens moved ~~to~~ ^{to} better site and wrote up notes. Was camp cook over night.

July 10. Raining night, mended & did odd jobs in the A.M. got early dinner, - guides down at locked camp. Afternoon botanized in ^{with Pease &} ~~Grison~~ Great Chimney. Tiny chimney at right looked feasible for climbing to top. Climbed shelf of great chimney higher than others got mostly lichens and mosses for Collins, also a very few algae Nostoc & one other. Fernald & party botanized first gully above nettle gully then cliffs beyond great chimney, between it and next gully. Guides finished trail to top of Fernald pass.

July 11 Very rainy staid about camp, got dinner dried driers & prepared for next day.

July 12. Collins Pease Smith + I got up early and were ready to start as soon as breakfast. We came up the new trail thru Fernald pass to Fernald pond thence up to Camp 3 site a little above. Thence we followed the fern glades at about camp level around to the brook at the head of the valley east of ^{Mt.} Fortin thence followed the brook to the top, lunched at source of brook thence to top of Mt Pease = Mt Sogan? where we found two ~~the~~ cairns on the twin rocks at top. While Collins + Smith took panorama, compass ^{+ barometer} readings Pease + I went down where we could look into the cirque N.E. of Mt Sogan? thence back to top and investigated feasibility of trip to talus slopes of cirque by descent of stream from little lakes nearest Mt Sogan. Returned to top + down

July 13. Collins + I Climbed to top of Mt Fortin took photographs went along ridge as far as possible then descended to fern glades on east of Fortin then up Mt Pease as the

previous day. We went to ponds + hanging valley near Mt Sogan spent the afternoon in the vicinity photographing and then returned as in previous day. A good swim! in Fernald pond + bed early

July 14. Cold night 6°C at breakfast After breakfast Collins + I ascended ^{Mattaouisse} ~~Mt Sogan~~ took photographs looking east from near summit then back along brink of Fernald Ravine (crag) to saddle thence up east side of barren ^(Mt Collins) to south east corner over pine scrub and back to camp tired.

July 15. After breakfast Pease, Griscom ~~Fortin~~ + myself bade goodbye to the main party who returned to the locked camp (#1) to care for the collections. It soon started to rain and we climbed Mt Pease in the drizzle + fog. We found the cairn but in trying to keep to the ^{south} east side of the table land we went too far south dropping part way into the valley. When it was evident

we were lost we tried ~~using~~ the compass, finally landing on the promontory where Collins, MacKenzie & I had stopped to take pictures. Here I recognized our position and in spite of the pouring rain & strong winds we pushed across the south hanging valley and camped just east of two little ponds which looked like filter beds. We spent the afternoon in getting camp in shape and in drying out.

July 16. Pease & Griscom went to the east hanging valley over the crests along the rim and descending botanized back along the talus slopes. Fortin & I left them and ascended the hills beyond. After a short time we struck the top of a range running approximately ~~with + south~~ east & west. We followed this around toward the east & northeast until it descended into a deep ravine shedding water in both directions. We climbed to a little subalpine area beyond then dropped into the southeast valley for lunch, followed it south along

the east shore of the first large lake then northwest to the top of the ridge on which we had come. We followed this back nearly to the hanging valley, descended thither and returned via the rim of the Grand cirque and the lakes at the head of the Grand Cascade. We spent the evening discussing the patristic & mediaeval classical writers.

July 17. In the morning I took a walk with Pease along the rim of the Grand Cirque to the peak overlooking the east hanging valley for photographs then descended the portals of the cascade and returned for hearty lunch. We descended to Camp 2 for the night.

July 18. Descended to camp 1. For the first part of the trip the trail leads thru very good country for fungi. The latter portion the woods become too mossy. Afternoon in letter writing evening in fighting midges.

July 19. Trip to Cap Chat. Notable, principally for portage of our wagon load of baggage where the road had slid into the river since we came in. We even carried across the wagon while the horse was driven around. Dinner at M. JB Émond's with an uneventful auto trip to Cap Chat and a crowded ride to Ste Anne des Monts where the bus driver put 20 passengers in 3 seats. We put up at M. A. Pelleher's hotel.

July 20. Collins and I collected algae in the morning on the rocks below La Montagne's residence to the east of the village. Pressed in P.M.

July 21. Owing to unexpected delays we did not start up the R. Ste Anne de Monts until after lunch.

we only reached the lower fishing camp ~~by~~ 8-9 miles above ~~the~~ the St Lawrence.

July 22. We walked about 20 miles along the west shore of R Ste Anne to its junction with R. Cote thence the south bank along a wood road about parallel with the river. Road good to upper fishing camp then very poor. Smith + I disliked the odors of the cabin and camped

in my tent across the brook at Grand ~~Fosse~~ Camp 6

July 23. Came to Plaque malade waited for baggage & took a swim in the Ste Anne not very deep but current strong. Since writing above learned that we missed Plaque malade and came to the next camp up river. Thibault and Jugas came up for Mackenzie and me. We returned to Plaque malade, had lunch about 3³⁰ and climbed two thirds of the way up Mt. Albert for a late camp ~~also~~ with little water. Camp 7.

July 24. Collins & I climbed Albert together leaving the main party in the saddle at the head of the Plaque malade trail. We went to Flagstaff peak to sketch the Mts of the Mt Logan & Bayfield ranges. Here we ran on to a party of geologists following the junction of hornblend and serpentine for the geological sheets. While talking with them we lost sight of the rest of the party and did not see them until night. *Adiantum aleuticum* abundant on slopes above

tree line on serpentine. I thought I saw ~~two~~ our large seacoast *Thelodactylus* on the serpentine but unable to collect. A *Trentepohli* is very common. Collins introduced me to the specialties of the serpentine at the ridge between snowbrook ravine & asbestos brook. We ate lunch and returned to the ponds above Plaque malade brook where I descended some distance ^{alone}. Thence I went back & found Collins and we returned after taking a few pictures. The main party returned much later & very tired.

July 25. Put specimens in press, came back to Plaque malade with Collins, had a good bath, hot lunch & returned to Grande Forse in late afternoon. Thibault's horse badly injured and had to be pulled out with alpine rope.

July 26. Hard rain walked back to Ste Anne des Monts variously estimated at 26 to 30 miles the lower estimate probably being nearer accurate. Smith & Guscom

made it in $6\frac{1}{2}$ hrs walking time an average of at least 4 miles per hr. I collected the first 13 miles then put my vasculum on the wagon and came on averaging about 3 miles per hour for the last half of the trip.

July 27. Worked at yesterday's collections all day. strong wind & bright sun.

July 28. Did all sorts of odd jobs finishing everything but diary by bed time

July 29. After breakfast to Mont Louis by motor boat. Interesting cliffs most of the way spent the night at Mme Cameron's

July 30. Started up Mont Louis River at cabin seven ^{good} miles in end of wagon

road barometer set at 3027

	barometer	pedometer
9 ³⁵	30.16 in 105 ft	0

1425

3 $\frac{1}{4}$ pond

2¹⁵ 28.78

1350

4 $\frac{1}{2}$ brook lunch

5⁴⁰ 28.6

1540

10 $\frac{1}{2}$ Lac Mont Louis

Spent the night in tents near cabin at
Lac Mont Louis Camp 8

July 31. barometer set as yesterday

8 ⁰⁰	28.52	1600	0	Sac Mont Louis
		2400		Top of hill beyond lunch
		2650	8	next hill top
2 ⁵⁰		2000	9.8	bottom
5 ⁰⁰	28.32	1700	14.25	camp 9

North branch of the Madeleine Rivière.

The hill 2650ft proved to be the divide between the waters of Rivière Mont Louis & the Magdalen R. Madeleine. Spent the night in camp 9. Road rather uninteresting mostly covered with *Hypnum Schreberi*. Little fungus collecting

August 2. barometer set as yesterday

7 ⁰⁰	28.20	1800	0	Camp 9.
8⁰⁰		3250	4 1/2	Camp 10

Moved camp up to lake at foot of Se Viellard à sud. Camp 10. Hard rain all the morning. Went up to side of Dunraven for the late P.M. got very little. Began to rain, got soaked, had to cook for the night.

August 3. Went up over botanists dome down ravine between Mc Nab & Dunraven, covered 16 miles on whole trip

August 3 Barometer set as before

9⁰⁰ 3250 0

10 3250 $\frac{3}{4}$ outled

11 30 3800 1³/₄ Se Vidland

Big Lake behind N branch camp ^{N 2} ^{W 30} end / 104°

Big \searrow mt bear top above horizon $\cdot 163^\circ$

Horseshoe Lake island in center 190°

East peak of Table Top { first high peak in Panorama } 210°
 { big mine with chimneys }

Sharpest castle peak (2nd from left) 236°

Upper snow bank on Bot. Dome 282°

Lowest pt on horizon between B.D. & Mc Nab 307°

Middle snow bank on McNab 322°

Other Vieillard 355^b

Sept Sacs (Rivière Pierre) 15

Round bare spot on hill opposite 33°

Climbed Le Vieillard à sud going around via south side of Lac Vieillard returning via meadows on the north. Very bare mountain not even *Potentilla tridentata* found.

August 4 Moved camp into basin of Table Top establishing camp at north east corner of V-I lake altitude 3975 (reading taken in threatening weather. Botanized meadow to north and shores of VI pond after lunch. Camp 11

August 5. Altitude of Camp 3875 fair weather Followed the outlet of Lac VI thru to the head of the curve of the north east branch of the Rivière St Anne des Monts thence down the cliffs to the side of the brook, to 2900 feet thence up the talus to the biggest chimney and up that to the top, thence back to Camp 11 via pond with single large rocky island and smaller ponds. Guides went fishing. Pedometer 7 miles.

August 6 fair, spent the morning in taking care of specimens ~~and the afternoon~~
~~at Mac.~~ Barometer camp 11 as ~~at~~ 3775

Aug 7. Weather unpropitious climbed McNab good luck on east side but cold wind It began to rain so we crossed to west

face and botanized the meadows at the head of the north branch of the Madeleine between McNab & Auclair. After lunch we started for the snow banks on the north face were soon enveloped in fog until we were well down on the north face when we could see to find the snow banks.

Finally we started back to be lost in the fog on top of McNab and wandered about for some time, being saved once by Fernald's seeing *Salix hebecarpa* which he had found only between McNab & Dunraven and once by my establishing a pond at the foot of Dunraven as the place we had lunched Aug. 3 by the wrapper of a case of Dot sweet chocolate carefully tucked out of sight under the roots of an old stump. We arrived at dark after a walk of 13 miles by pedometer. Aug 8. Bad weather took nearly all day to look after specimens. Guides went down with full presses at 3 P.M.

August 9. Rain & fog continued. Fernald & Smith went over between Botanists Dome and the Court to the snow banks. I spent the day in camp, drying driers and doing odd jobs. Guides returned about 1³⁰. After that I set out to find some algae as the weather cleared but found nothing in fruit.

August 10. Another very rainy day with dense fog in the morning. About 10 Fernald & Smith with Fortin started for the meadows of Auclair, being away all day. I picked up a number of lichens near VI lac and botanized the Visland in the afternoon.

August 11. After taking care of the plants we went back to camp 9. It began to rain as we reached the old camp 10 site at Lac Viellard and we were soaked for the last four miles. M. Fred Auclair of Mt Souis, our teamster for the down trip had already reached the cabin and had a fire when we arrived. We changed to dry clothes.

and spent the rest of the afternoon in changing driers and straightening leaves.

August 12. We started for the mud pond near ($\frac{3}{4}$ mile) the camp 8 and botanized its shore, then took the trail down.

Mushroom collecting was the principal work of all three of us. We reached camp 7 at Lac Mt Souis about 2 had a warm lunch and resumed our journey. We reached the cabin on the forks of the R. Mt Souis at twilight. After a supper of cheese and raisins we started to walk the rest of the way to Mt. Souis. Fernald's ankle gave out and he hired a team to bring him in. In the last four miles he overtook Smith & me about 3 miles out. Pedometer recorded 27 miles when we got into the wagon.

August 13. Cold and rainy, worked all day long taking notes on agarics and keeping them drying.

August 14. Fernald & Smith went to the cliffs on the east bank of Riviere à St Pierre while I finished notes on agarics.

In the afternoon Mrs Cameron's son Allen drove us to the upper end of the lake above Anse Pleureuse. We botanized mainly on the slaty cliffs and talus forming the east side of the lake above the road. We returned to the house about dark.

August 15. In the morning I botanized the rocky shore on the east side of Mont Louis Bay, getting much material but succeeding in mounting very few sheets of each kind before dark. The Gaspeia arrived about 10 PM and we left Mrs Cameron's comfortable quarters for the smoking room of the boat. It was so rough the ship stayed in Mt Louis harbor until 11 AM the next day.

August 16. We arrived in Ste Anne des Monts about 3 and spent the rest of the day caring for plants.

August 17. Spent the day drying and packing fungi did a little shopping and wrote two letters.

August 18. Came to Cap Chat on the autobus.

Owing to our baggage and that of Bro. Victorin's party, passengers had only two seats. Before we reached Cap Chat the bus was carrying 14 adults and 2 children on those two seats and the running board. Fernald being of small stature he rode perched on our baggage, his head bumping the top. We took an auto to M. Emond's clearing as before. I came on to collect fungi without waiting for dinner arrived at locked camp no. 1 at 3 P.M.

19

20. Pleasant day, finished field notes and followed the

road up over to the next camp at
a fair sized stream about a mile
a half. Found plenty of game.

August **21** Field notes in forenoon.
Fortin came down for last load
and I went with him to the cutter
just before the trail descent.
The forenoon was spent in
collecting game on the
way down.

August **22**. Very rainy day, worked
at field notes and drying all day.
No game taken.

August **23** Cleared off by noon.
Salted down plants and flowers.
About noon started up what
is the R.C. Hot - Machine trail
but it proved to be a road road.
By the time I had blundered
to the proper trail I had my
asculum so nearly full that
I did not try to go any further.

the lakes but returned to camp.
 Mr Farley and guide walked the
 afternoon en route ground
 Cuscopecua to say that after
 discussing topography they
 decided to head at to river
 in a hurried ascent of Logan
 (2000 ft high). They gave the
 Trent very large for a
 man. Mr J W Farley, 84 State St
 Boston Tel. 7380 Main.

Aug 24, Worked at plants all day
 Thibault returned at night with
 a load of plants and driers. Mr Farley
 called, told of his trip up Matkwa
 and Thibault later told how he had
 met Farley, turned back and climbed
 Matkwa, in return for which he was
 to receive Farley's canoe & surplus
 food.

August 25. Explored the wood
 roads in the region of the Mechini

Rivière cap Chat trail returning about noon. Fernald et al returned reporting the weather too stormy for successful work.

Aug 26. Worked at plants most of the day. Fernald, Smith and Joe tried to find the trail to the lakes and failed even as I had.

Aug. 27. Worked at plants and packing. Fernald + Smith went back up the wood roads after pictures.

Aug. 28. Returned to Ste Anne des Monts by auto from M. Emonds.

Aug. 29. Packed

Aug. 30. Return journey Matane 12-2 M + Joli 4 - 11:40 PM.

Aug. 31. Arrived St John's ^{NB} early PM left about 6 PM.

Sept 1 Arrived Cambridge about noon

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